

MEEKS BAY MARINA STORM WATER POLLUTION PREVENTION PLAN

This Storm Water Pollution Prevention Plan (SWPPP) for the Meeks Bay Marina is submitted to the Lahontan Regional Water Quality Control Board (Lahontan RWQCB) in compliance with Board Order No. 6-00-36, National Pollutant Discharge Elimination System General Permit NPDES CA CAG616003, for discharges of storm water runoff associated with industrial activity at marinas on Lake Tahoe. This SWPPP has been designed to comply with Federal requirements to implement best management practices (BMPs) to achieve compliance with effluent limits and receiving water objectives.

1. Objectives

The SWPPP has been developed, and will be amended when necessary, to meet the following objectives:

- a. to identify and evaluate sources of pollutants associated with industrial activities being conducted at the facility that may affect the quality of storm water discharges and prevent non-storm water discharges from the facility; and,
- b. to identify and implement site-specific best management practices (BMPs) to reduce or prevent pollutants associated with industrial activities in storm water discharges and non-storm water discharges.

BMPs may include a variety of pollution prevention measures or other low-cost and pollution control measures. They are generally categorized as non-structural BMPs (activity schedules, prohibitions of practices, maintenance procedures, and other low-cost measures) and as structural BMPs (treatment measures, runoff controls, overhead coverage.)

2. Planning and Organization

- a. Pollution Prevention Team

The Meeks Bay Marina storm water pollution prevention team consists of Bob Hassett, Marina Operator, who is responsible for overall operations, and Ed Oliver, Marina Manager, who is responsible for daily operations and employee training and supervision.

- b. Other Requirements and Existing Facility Plans

The following other plans and reports for regulatory agencies are incorporated by reference into this SWPPP:

- i. Meeks Bay Marina Storm Water Monitoring Plan prepared for and submitted to the Lahontan RWQCB per Board Order No. 6-00-36 and National Pollutant Discharge Elimination System General Permit NPDES CA CAG616003. This plan includes

monitoring programs assure compliance with storm water discharge requirements and non-storm water discharge restrictions.

3. Site Map

Figure 1 - Meeks Bay Marina Layout Diagram identifies the parking lot, marina office, boat ramp and slips which comprise the marina. Currently, there are no storm water collection and treatment facilities on-site. There are no municipal storm drain facilities serving the site.

The marina shares the site of the Meeks Bay Resort which is a much larger facility to the north of the marina portion of the site. There may be some storm water run-on from the resort campsites adjacent to the marina. Since these areas are essentially unimproved and no “industrial activity” occurs there, no additional pollutants are expected to be conveyed by run-on water.

As a recreational boating marina, little, if any “industrial activity,” occurs on the site. There is no fueling, and repair/maintenance is limited to slip holders working on their own boats. Rental boats are transferred to other facilities with repair stations for maintenance and repair. A steel cabinet to collect used oil from private boat owners is located behind the marina office. This collection point is a part of the oil collection program implemented by El Dorado County and other resource protection agencies.

No erodible “industrial activity” materials are directly exposed to precipitation and no significant spills or leaks have occurred.

4. List of Significant Materials

There are no significant materials handled and stored at the site.

5. Description of Potential Pollutant Sources

The “industrial activity” occurring at the marina is the mooring and operation of water craft. These activities do not have significant potential to contribute pollutants to storm water run-off. These activities are conducted in compliance with the applicable BMPs (non-fueling) listed in Attachments F and G from the General Permit.

The parking lot can collect oil and sands deposited by vehicles parked in the lot. These pollutants could be then washed off with storm water. Also, since the parking lot is unpaved, significant storm water flows will erode the parking area itself. Run-off from the parking lot drains both to the north and south. Southerly flows drain into the water of the marina. Parking barriers are in place to control vehicle travel within the parking lot.

6. Assessment of Potential Pollutant Sources

The only potential pollutant source is the non-BMPed parking lot.

7. Storm Water Best Management Practices

The marina parking lot, as well as the entire Meeks Bay Resort, requires retro-fitting with storm water BMPs to comply with the provisions of the General Permit and other regulations. The resort property is owned by the US Forest Service which has permitted the Washoe Tribe of California and Nevada to operate the facility. The marina is operated under a sublease from the Tribe. As a condition of the permit to operate, the Tribe has been directed to prepare and implement a BMP retrofit plan for the entire property, including the marina. BMPs at the marina are expected to include paving of the parking lot and access road, storm water collection, treatment and infiltration facilities.

Once the overall BMP plan is approved, this SWPPP will be amended to include the specific improvements required in the marina portion of the site. As the improvements are constructed, this plan will continued to be amended to include BMP maintenance provisions.

In addition, non-structural BMPs, consisting of the following processes, prohibitions, procedures, schedule of activities, *etc.*, that prevent pollutants associated with industrial activity from contacting with storm water discharges and authorized non-storm water discharges, have been considered and adopted:

- a. Good Housekeeping - Good housekeeping generally consists of practical procedures to maintain a clean and orderly facility. The parking lot and all other areas (ramp, docks, *etc.*) with the potential to release pollutants to storm water or directly to Lake Tahoe are kept orderly and clean.
- b. Preventive Maintenance - Preventive maintenance includes the regular inspection and maintenance of structural storm water controls (catch basins, oil/water separators, *etc.*) as well as other facility equipment and systems. The components of the drainage system (although unimproved) are monitored per the prescribed schedule in the Meeks Bay Marina Monitoring Plan as required by the General Permit.
- c. Spill Response - This includes spill clean-up procedures and necessary clean-up equipment based upon the quantities and locations of significant materials that may spill or leak. Since no significant materials are stored on-site, only minimal clean-up equipment is required.
- d. Material Handling and Storage - This includes all procedures to minimize the potential for spills and leaks and to minimize exposure of significant materials to storm water and authorized non-storm water discharges. Again, the absence of significant materials precludes the need for special handling and storage procedures.
- e. Employee Training - This includes training of personnel who are responsible for (1) implementing activities identified in the SWPPP, (2) conducting inspections, sampling, and visual observations, and (3) managing storm water. All new hires are instructed in spill prevention, spill response and clean-up, and spill reporting at the beginning of their employment. Walk-through inspections of marina facilities are conducted weekly and

used as continuing training sessions for employees.

- f. Waste Handling/Recycling - This includes the procedures or processes to handle, store, or dispose of waste materials or recyclable materials. Privately generated used oil is stored and disposed of through the County collection and recycling program.
- g. Record Keeping and Internal Reporting - This includes the procedures to ensure that all records of inspections, spills, maintenance activities, corrective actions, visual observations, *etc.*, are developed, retained, and provided, as necessary, to the appropriate facility personnel. Inspection checklists have been included with the Monitoring Plan to provide records of inspections completed, any problems found and actions taken to fix those problems. Records are kept on-site in the marina office.
- h. Erosion Control and Site Stabilization - This includes a description of all sediment and erosion control activities. "Industrial activities" subject to storm water run-off are limited to the parking lot. This are will be subject to future improvement with required BMPs in conjunction with the retro-fit program for the entire resort.
- i. Inspections - This includes, in addition to the preventative maintenance inspections identified above, an inspection schedule of all potential pollutant sources. Inspections are included in the Monitoring Plan.
- j. Quality Assurance - This includes the procedures to ensure that all elements of the SWPPP and Monitoring Program are adequately conducted. Quality assurance is implemented by the Marina Manager who oversees all operations at the marina.

8. Annual Comprehensive Site Compliance Evaluation

Annual comprehensive site compliance evaluations are completed in the Fall in conjunction with the annual reporting requirement of the General Permit and Spring during the site visit inspection by Lahontan RWQCB staff. The Annual Report provides a written record of inspections, evaluations and activities at the marina. It also provides certification that the facility operator is in compliance with the General Permit. If the certification cannot be provided, this is explained in the Annual Report.

9. SWPPP General Requirements

The following general requirements for all SWPPPs are established by the Lahontan RWQCB:

- a. The SWPPP shall be retained on site and made available upon request of a representative of the Regional Board.
- b. The SWPPP shall identify the existing storm water BMPs already in place at the marina [**see Sec. 7 above**] and new BMPs [**parking lot retro-fit**] that are needed at the marina in order to further reduce and prevent pollutants in storm water and non-storm water discharges. The new BMPs that are identified by the marina operator in the SWPPP shall be

implemented by **October 15, 2003.**


- c. The Regional Board may notify the facility operator when the SWPPP does not meet one or more of the minimum requirements of this section. As requested by the Regional Board the facility operator shall submit a SWPPP revision and implementation schedule that meets the minimum requirements of this Section to the Regional Board. Within 14 days after implementing the required SWPPP revisions, the facility operator shall provide written certification to the Regional Board that the revisions have been implemented.
- d. The SWPPP shall be revised, as appropriate, and implemented prior to changes in industrial activities which (i) may significantly increase the quantities of pollutants in storm water discharge, (ii) cause a new area of industrial activity at the facility to be exposed to storm water, or (iii) begin an industrial activity which would introduce a new pollutant source at the facility.
- e. The SWPPP should also be amended if it is in violation of any condition of this General Permit, or has not achieved the general objectives of controlling pollutants in storm water discharges. The amended SWPPP shall be submitted no later than 30 days after the determination of violation or non-achievement to the Regional Board Executive Officer for review and approval.

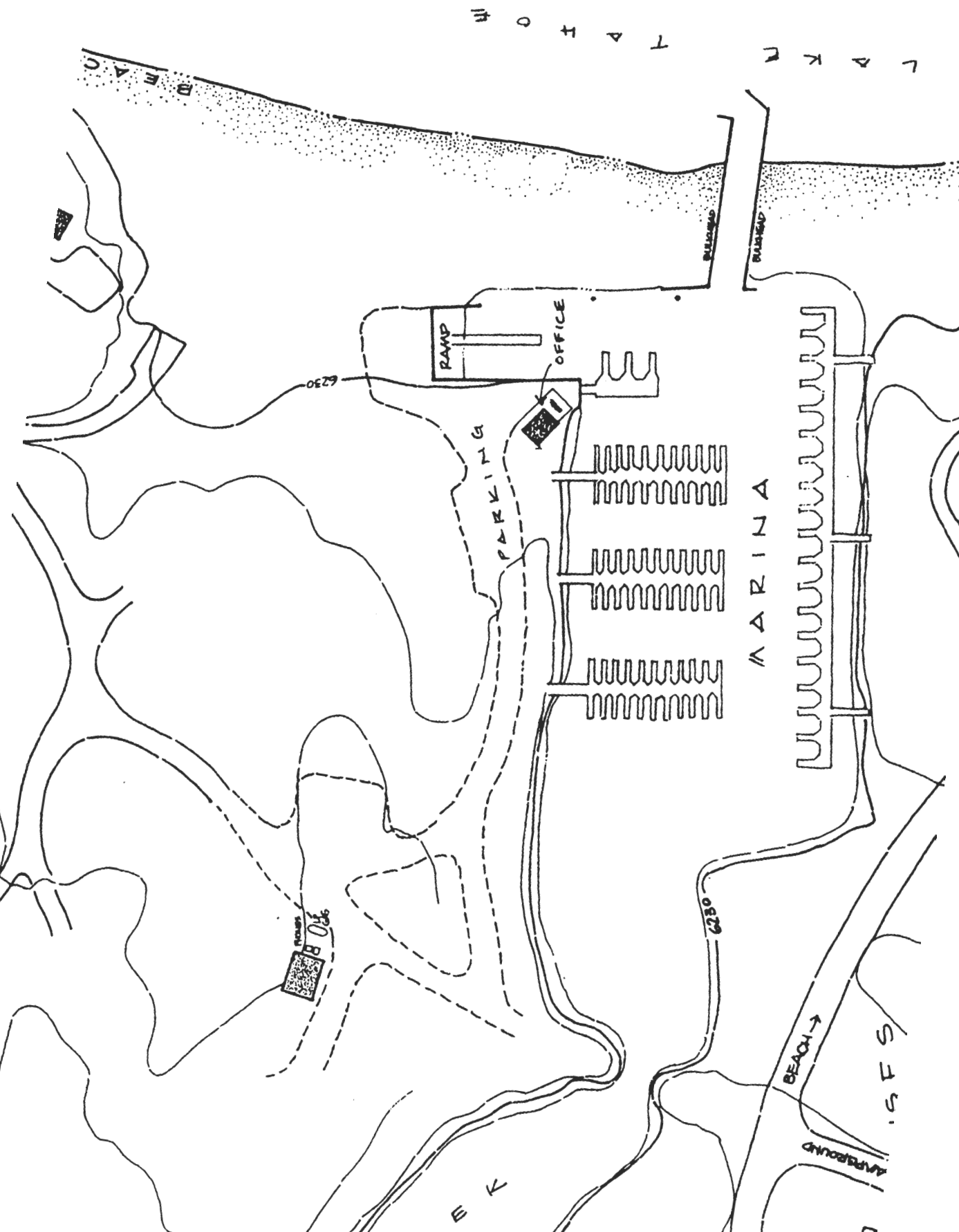
10. Public Access

The SWPPP is considered a report that shall be available to the public under Section 308(b) of the Clean Water Act. Upon request by members of the public, the marina operator shall make available for review a copy of the SWPPP directly to the requester.

11. Preparer

This SWPPP was prepared by: Jay Kniep, AICP, Consultant/Agent for Marina Operator and initially submitted to the Regional Board on November 15, 2000.

Signature: 



MEEKS BAY MARINA MONITORING PROGRAM

1. Introduction

This Monitoring Program for the Meeks Bay Marina is submitted to the Lahontan Regional Water Quality Control Board (Lahontan) in compliance with Board Order No. 6-00-36, National Pollutant Discharge Elimination System General Permit NPDES CA CAG616003, for discharges of storm water runoff associated with industrial activity and maintenance dredging at marinas. This Monitoring Program establishes procedures to implement the requirements of the Lahontan Board Order at Meeks Bay Marina

The Meeks Bay Marina is on the site of the Meeks Bay Resort which is owned by the United States Forest Service (USFS). The resort and marina are operated under a Special Use Permit issued by the USFS to the Washoe Tribe of California and Nevada. The marina is operated under a sublease from the Tribe to Action Watersports of Tahoe, Inc., owned by Bob Hassett (Marina Operator). The Marina Manager, Ed Oliver, is the person on-site responsible for implementing this Monitoring Program. The marina layout and drainage areas are identified in Map 1, attached.

None of the overall site, including the marina portion, has been retro-fitted with drainage systems complying with the Best Management Practices (BMPs) mandated by Lahontan and the Tahoe Regional Planning Agency. The planning, design and construction of such a system is a priority of the USFS and Marina Operator, and will be addressed in the Storm Water Pollution Prevention Plan to be prepared for the marina. Currently, storm water run-off from compacted and impervious areas discharges to groundwater and/or directly to Lake Tahoe without treatment.

2. Objectives

The objectives of the monitoring program are to:

- a. Ensure that storm water discharges, non-storm water discharges, and discharges associated with maintenance dredging are in compliance with the Discharge Prohibitions, Effluent Limitations, and Receiving Water Limitations specified in the General Permit.
- b. Ensure practices at the marina to reduce or prevent pollutants in surface water discharges, storm water discharges, and non-storm water discharges are evaluated and revised to meet changing conditions.
- c. Aid in the implementation and revision of the Storm Water Pollution Prevention Plan (SWPPP) for the marina.
- d. Measure the effectiveness of best management practices (BMPS) to prevent or reduce pollutants in storm water discharges.

3. Non-storm Water Discharge Visual Observations

- a. The Marina Operator will visually observe the boat ramp and marina parking lot area for the presence of unauthorized non-storm water discharges;
- b. The visual observations will occur monthly, during daylight hours, on days with no storm water discharges, and during scheduled marina operating hours. Observations will be made during each month that the marina is operating (typically mid-May through early October); and,
- c. Records of visual observations (Worksheet on page B-1) will document the presence of any discolorations, stains, odors, floating materials, *etc.*, as well as the source of any non-storm discharge observed. Records will be maintained including visual observation dates, locations observed, conditions observed, and response taken to eliminate unauthorized non-storm water discharges and to reduce or prevent pollutants from contacting non-storm water discharges. The SWPPP will be revised, as necessary, and implemented in accordance with the General Permit.

4. Storm Water Discharge Visual Observations

- a. The Marina Operator will visually observe storm water discharges from four storm events per operating season of the marina. These visual observations will occur during the first hour of discharge and at all discharge locations.
- b. Visual observations are only required of storm water discharges that occur during daylight hours that are preceded by at least three working days without storm water discharges and that occur during scheduled marina operating hours.
- c. Visual observations will document the presence of any floating and suspended material, oil and grease, discolorations, turbidity, odor, and source of any pollutants. Records will be maintained of observation dates, locations observed, observations, and response taken to reduce or prevent pollutants in storm water discharges (Worksheet on page B-2). The SWPPP will be revised, as necessary, and implemented in accordance with the General Permit.

5. Storm Water and Surface Water Sampling and Analysis

- a. The Marina Operator will collect storm water samples during the first hour of discharge from (1) the first storm event during the marina's operating season, and (2) at least one other storm event during the marina's operating season. Sampling will occur at the boat ramp entering the inner marina (Lake Tahoe) and the marina parking lot area draining to the inner marina. If samples from the first storm event are not collected, samples from two other storm events during the marina's operating season will be collected. The Annual Report will explain why the first storm event was not sampled.

